

FILE 'HOME' ENTERED AT 13:51:44 ON 28 JUL 2010

=> file .pensee
COST IN U.S. DOLLARS
SINCE FILE ENTRY
SESSION
0.22
0.22
FULL ESTIMATED COST

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=> e wang shan/au
E1 6 WANG SHAMINO Y/AU
E2 1 WANG SHAMINO YUANLIANG/AU
E3 818 --> WANG SHAN/AU
E4 4 WANG SHAN BA/AU
E5 1 WANG SHAN CAI/AU
E6 1 WANG SHAN CH ENG/AU
E7 8 WANG SHAN CHANG/AU
E8 1 WANG SHAN CHI/AU
E9 1 WANG SHAN CHIU/AU
E10 2 WANG SHAN CHUAN/AU
E11 1 WANG SHAN CING/AU
E12 1 WANG SHAN COLLEGE OF CIVIL ENGINEERING HARBIN ENGINEER/AU

=> s e3 and (ac tickling field)
L1 0 "WANG SHAN"/AU AND (AC TICKLING FIELD)

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=> s e3 and ac field)
UNMATCHED RIGHT PARENTHESIS 'FIELD)'
The number of right parentheses in a query must be equal to the
number of left parentheses.
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$\equiv \mathbf{z}$ in \mathbf{p}^3 and ac field

L2 0 "WANG SHAN"/AU AND AC FIELD

=> s e3 and magnetic

L3 24 "WANG SHAN"/AU AND MAGNETIC

=> dup rem 13

PROCESSING COMPLETED FOR L3

L4 22 DUP REM L3 (2 DUPLICATES REMOVED)

=> d 14 1-22 ti

L4 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 1

TI Micro-plate magnetic chemiluminescence immunoassay and its applications in carcinoembryonic antigen analysis

L4 ANSWER 2 OF 22 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN

TI Isolation and identification of the main carotenoid pigment from the rare orange muscle of the Yesso scallop.

L4 ANSWER 3 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN

TI Growth of single-walled carbon nanotubes from tellurium nanoparticles by alcohol CVD

L4 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 2

TI Magnetic nanotechnology for biodetection

L4 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

TI Photoelectric positioning apparatus coded with Hall device

L4 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

TI Controllable reactor with parallel magnetic circuit and self-shielding of magnetic leakage

L4 ANSWER 7 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN

TI Synthesis and characterization of NaYF₄:Yb, Er upconversion fluorescent nanoparticles via a co-precipitation method

L4 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

TI Synthesis of rod-like bis-ester liquid crystals and their influence on photoelectric properties of liquid crystalline materials

L4 ANSWER 9 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN

TI Synthesis and characterization of uniform-sized hollow chitosan microspheres

L4 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

TI Forming method of magnetic bio-carrier for sewage treatment

L4 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

TI High-performance magnetic biocarrier for wastewater treatment, and its preparation method

L4 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

TI Purification and structural studies of sec-butyl-cis-trans-1-propenyl disulfide in essential oil from Ferula sinkiangensis K. M. Shen

L4 ANSWER 13 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN

TI OLTP workloads on modern processor: Characterization and analysis

L4 ANSWER 14 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN

TI New method on uniformity tuning of Ta(N) barrier layer

L4 ANSWER 15 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI Hydrothermally stable aluminosilicate mesostructures prepared from
zeolite ZSM-5

L4 ANSWER 16 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI Spin wave based logic circuits

L4 ANSWER 17 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI Fluidization of nano-sized particles - design and operation issues

L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation and application of assembled magnetic composite
particle

L4 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
TI Synthesis and NMR elucidation of adrafinil

L4 ANSWER 20 OF 22 MEDLINE on STN
TI Identifying N-nitrosofenfluramine in a nutrition supplement.

L4 ANSWER 21 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN
TI HRTEM study of Al₂O₃ barriers in Co₈₁Pt₁₉/Co/Al-Al₂O₃/Ni₈₀Fe₂₀ spin
dependent tunneling junctions

L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN
TI The 1997 IEEE International Magnetics Conference (Intermag '97),
Part I, held at the Hyatt Regency Hotel, New Orleans, Louisiana, 1-4 April
1997. [In: IEEE Trans. Magn., 1997; 33(5 Pt. 1)]

=> s 14 and tickle or tickling
L5 735 L4 AND TICKLE OR TICKLING

=> s tickle or tickling
L6 1658 TICKLE OR TICKLING

=> s 16 and 14
L7 0 L6 AND L4

=> s 14 and ac
L8 0 L4 AND AC

=> s e3 and ac
L9 7 "WANG SHAN"/AU AND AC

=> dup rem 19
PROCESSING COMPLETED FOR L9
L10 5 DUP REM L9 (2 DUPLICATES REMOVED)

=> d 110 1-5

L10 ANSWER 1 OF 5 USPATFULL on STN
AN 2008:265858 USPATFULL <<LOGINID::20100728>>
TI Power control circuit with alarm
IN Chen, Chao, Guangdong, CHINA
Wang, Shan, Hunan, CHINA
PI US 20080232016 A1 20080925
AI US 2007-688887 A1 20070321 (11)
DT Utility
FS APPLICATION

LN.CNT 152
INCL INCLM: 361/093.100
NCL NCLM: 361/093.100
IC IPCI H02H0003-08 [I,A]
IPCR H02H0003-08 [I,C]; H02H0003-08 [I,A]

L10 ANSWER 2 OF 5 METADEX COPYRIGHT 2010 CSA on STN
AN 2007(09):71-197873 METADEX <<LOGINID::20100728>>
TI Development of TIG welding machine with digital IGBT.
AU Li, He-Qi (College of Material Science and Engineering, Lanzhou Univ.
of Tech., Lanzhou 730050, China); Guo, Xue-Liang; Wang, Shan; Zhang,
Peng; Li, Hong
SO Lanzhou Ligong Daxue Xuebao / Journal of Lanzhou University of Technology
(20070200), vol. 33, 1, pp. 21-24
Published by: Lanzhou University of Technology, 85 Langongping Road,
Lanzhou, Gansu Province, 730050, mailto: journal@lut.cn. 20070200
ISSN: 1673-5196
DT Journal
CY China
LA Chinese

L10 ANSWER 3 OF 5 METADEX COPYRIGHT 2010 CSA on STN
AN 2007(01):55-002518 METADEX <<LOGINID::20100728>>
TI Digital IGBT inverter AC/DC pulsed TIG welding power sources
based on DSP.
AU Li, Chun-Xu (State Key Lab. Of Advanced Non-ferrous Materials,
Lanzhou Univ. of Tech., Lanzhou 730050, China); Wang, Shan; Guo,
Xue-Liang
SO Dianhanji / Electric Welding Machine (20061000), vol. 36, 10, pp. 31-35
Published by: Electric Welding Machine, No. 29, Dongyiduan 2nd Ring Road,
Chengdu, mailto: dhj@71dhj.com, URL: www.71dhj.com. 20061000
ISSN: 1001-2303
DT Journal
CY China
LA Chinese

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2004:1010027 CAPLUS <<LOGINID::20100728>>
DN 142:356059
TI Method for preparing sulfide/polymer composite microsphere with patterned
surface
IN Fang, Yu; Bai, Chaoliang; Zhang, Ying; Wang, Shan; Hu, Daodao;
Wang, Mingzhen; Gao, Lining
PA Shaanxi Normal University, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 13 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1473648 CN 1191115	A C	20040211 20050302	CN 2003-134477	20030808
PRAI	CN 2003-134477		20030808		

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 1
AN 2004:205954 CAPLUS <<LOGINID::20100728>>
DN 140:310157
TI Preparation of spherical nanostructured poly(methacrylic acid)/PbS
composites by a microgel template method
AU Zhang, Ying; Fang, Yu; Wang, Shan; Lin, Shuyu

CS School of Chemistry and Materials Science, Shaanxi Normal University, Xi'an, Shaanxi, 710062, Peop. Rep. China
SO Journal of Colloid and Interface Science (2004), 272(2), 321-325
CODEN: JCISA5; ISSN: 0021-9797
PB Elsevier Science
DT Journal
LA English
OSC.G 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)
RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s e3 and (magnetic field)
L11 3 "WANG SHAN"/AU AND (MAGNETIC FIELD)

=> d 111 1-3

L11 ANSWER 1 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN
AN 2010-1012755563 COMPENDEX <<LOGINID::20100728>>
TI Magnetic Nanotechnology for Biodetection
AU Han Shu-Jen; Wang Shan
CS Han Shu-Jen (IBM T.J. Watson Research Center, Yorktown Heights, NY (US)); Wang Shan (Stanford University, Stanford, CA (US))
EMAIL: sjhan@us.ibm.com
SO JALA - Journal of the Association for Laboratory Automation (Apr 2010)
Volume 15, Number 2, pp. 93-98, 20 refs.
CODEN: JALLFO ISSN: 1535-5535 E-ISSN: 1540-2452
DOI: 10.1016/j.jala.2009.10.008
Published by: Elsevier Inc., 170 S Independence Mall W 300 E, Philadelphia, PA 19106-3399 (US)
PUI S1535553509002408
CY United States
DT Journal; Article
LA English
SL English
ED Entered STN: 16 Mar 2010
Last updated on STN: 16 Mar 2010

L11 ANSWER 2 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN
AN 2009-4312389817 COMPENDEX <<LOGINID::20100728>>
TI Spin wave based logic circuits
AU Khitun Alexander; Bao Mingqiang; Lee Joo-Young; Wang Kang; Lee Dok Won; Wang Shan
CS Khitun Alexander; Bao Mingqiang; Lee Joo-Young; Wang Kang (Electrical Engineering, University of California Los Angeles, 420 Westwood Plaza Box 951594, Los Angeles, CA, 90095-1594 (US)); Lee Dok Won; Wang Shan (Stanford University, Stanford, CA, 94305-4045 (US))
SO Materials Research Society Symposium Proceedings - Nanoscale Magnetics and Device Applications. Materials Research Society Symposium Proceedings (2007) Volume 998, pp. 98-102, 8 refs.
CODEN: MRSPDH ISSN: 0272-9172 ISBN: 9781605604312
Published by: Materials Research Society, 506 Keystone Drive, Warrendale, PA 15086 (US)
Conference: Nanoscale Magnetics and Device Applications - 2007 MRS Spring Meeting San Francisco, CA (US), 9 Apr 2007-13 Apr 2007
CY United States
DT Conference; (Conference Paper)
LA English
SL English
ED Entered STN: 28 Oct 2009
Last updated on STN: 28 Oct 2009

L11 ANSWER 3 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN
AN 2008-4011612753 COMPENDEX <<LOGINID::20100728>>
TI New method on uniformity tuning of Ta(N) barrier layer
AU Yang Liu; Xu Jerry; Huang Liang; Wang Shan; Kang Jian
CS Yang Liu; Xu Jerry; Huang Liang; Wang Shan; Kang Jian (Applied Material
China Co. Ltd., BDA, Area A, No. 1, North Di Sheng Street, 100176,
Beijing (CN))
SO Semiconductor Technology, ISTC 2008 - Proceedings of the 7th
International Conference on Semiconductor Technology. Proceedings -
Electrochemical Society (2008) Volume PV 2008-1, pp. 327-330,
var.pagings p., 2 refs.
ISBN: 9789881740816
Published by: Electrochemical Society Inc.
Conference: 7th International Conference on Semiconductor Technology,
ISTC 2008 Shanghai (CN), 15 Mar 2008-17 Mar 2008
CY United States
DT Conference; (Conference Paper)
LA English
SL English
ED Entered STN: 5 Jan 2009
Last updated on STN: 5 Jan 2009

=> e white robert/au
E1 134 WHITE ROB/AU
E2 1 WHITE ROBER/AU
E3 212 --> WHITE ROBERT/AU
E4 147 WHITE ROBERT A/AU
E5 45 WHITE ROBERT A H/AU
E6 15 WHITE ROBERT A JR/AU
E7 3 WHITE ROBERT ALFRED ALBERT/AU
E8 2 WHITE ROBERT ALLEN/AU
E9 1 WHITE ROBERT ALTON JR/AU
E10 1 WHITE ROBERT ALVIN/AU
E11 2 WHITE ROBERT ANTHONY/AU
E12 1 WHITE ROBERT ARTHUR/AU

=> s e1-e3
L12 347 ("WHITE ROB"/AU OR "WHITE ROBER"/AU OR "WHITE ROBERT"/AU)

=> s l12 and (magnetic field)
L13 2 L12 AND (MAGNETIC FIELD)

=> d l13 1-2

L13 ANSWER 1 OF 2 USPATFULL on STN
AN 2006:331999 USPATFULL <<LOGINID::20100728>>
TI Method of and apparatus for determining if a buried current carrying
conductor is buried above predetermined minimum depth
IN Thompson, Jeff, Cheltenham, UNITED KINGDOM
Pearson, Richard, Bristol, UNITED KINGDOM
White, Robert, Leicestershire, UNITED KINGDOM
PI US 20060284610 A1 20061221
US 7339379 B2 20080304
AI US 2006-455660 A1 20060620 (11)
PRAI GB 2005-12564 20050620
DT Utility
FS APPLICATION
LN.CNT 614
INCL INCLM: 324/067.000

NCL NCLM: 324/326.000; 324/067.000
NCLS: 324/067.000
IC IPCI G01R0019-00 [I,A]
IPCI-2 G01V0003-08 [I,A]; G01V0003-11 [I,A]; G01V0003-10 [I,C*]
IPCR G01R0019-00 [I,C]; G01R0019-00 [I,A]; G01V0003-08 [I,C*];
G01V0003-08 [I,A]

L13 ANSWER 2 OF 2 USPATFULL on STN
AN 92:60231 USPATFULL <<LOGINID::20100728>>
TI Hub-mounted vehicle back-up alarm
IN Hutchisson, James, Bellevue, WA, United States
White, Robert, Kent, WA, United States
PA Dominion Automotive Industries Corp., Florence, KY, United States (U.S. corporation)
PI US 5132665 19920721
AI US 1990-545512 19900627 (7)
DT Utility
FS Granted
LN.CNT 479
INCL INCLM: 340/463.000
INCLS: 340/466.000; 340/672.000; 340/670.000; 340/671.000; 340/693.000;
307/009.100; 307/122.000; 200/061.550; 310/025.000; 310/040.000R;
310/067.000A; 310/068.000E
NCL NCLM: 340/463.000
NCLS: 200/061.550; 307/009.100; 307/122.000; 310/025.000; 310/040.000R;
310/067.000A; 310/068.000E; 340/466.000; 340/670.000;
340/671.000; 340/672.000; 340/693.200
IC [5]
ICM B60Q001-22
ICS G08B021-00
IPCI B60Q0001-22 [ICM,5]; B60Q0001-02 [ICM,5,C*]; G08B0021-00 [ICS,5]
IPCR B60Q0001-02 [I,C*]; B60Q0001-22 [I,A]
340/464-467; 340/672; 340/686; 340/687; 340/669-671; 340/693; 310/348;
310/1; 310/25; 310/39; 310/40R; 310/DIG.3; 310/67A; 310/68E; 307/9.1;
307/10.1; 307/121-122; 200/61.39; 200/61.55; 200/61.57; 200/DIG.32

=> e white r/au

E1	1	WHITE	QUENTIN	W/AU	
E2	1	WHITE	QUINTON	AU	
E3	2751	-->	WHITE	R/AU	
E4	1	WHITE	R	0/AU	
E5	2	WHITE	R	4TH/AU	
E6	807	WHITE	R	A/AU	
E7	1	WHITE	R	A	F/AU
E8	32	WHITE	R	A	H/AU
E9	10	WHITE	R	A	J/AU
E10	15	WHITE	R	A	JR/AU
E11	72	WHITE	R	A	S/AU
E12	106	WHITE	R	ALLEN	AU

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=> e webb chris/au
E1          3      WEBB CHIU HO T/AU
E2          2      WEBB CHLOE M B/AU
E3          44     --> WEBB CHRIS/AU
E4          1      WEBB CHRIS A/AU
E5          1      WEBB CHRIS ALBERT/AU
E6          45     WEBB CHRIS D/AU
E7          1      WEBB CHRIS DAVID/AU
E8          2      WEBB CHRIS J/AU
E9          2      WEBB CHRISTIAN A/AU
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E10 7 WEBB CHRISTINA K/AU
E11 1 WEBB CHRISTINA KAE/AU
E12 28 WEBB CHRISTINE/AU

=> s e3 and magnetic
L14 2 "WEBB CHRIS"/AU AND MAGNETIC

=> d 114 1-2

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2003:370178 CAPLUS <<LOGINID::20100728>>
DN 139:146121
TI Detection of single micron-sized magnetic bead and
magnetic nanoparticles using spin valve sensors for biological
applications
AU Li, Guanxiong; Joshi, Vikram; White, Robert L.; Wang, Shan X.; Kemp,
Jennifer T.; Webb, Chris; Davis, Ronald W.; Sun, Shouheng
CS Department of Materials Science and Engineering, Stanford University,
Stanford, CA, 94305, USA
SO Journal of Applied Physics (2003), 93(10, Pt. 2), 7557-7559
CODEN: JAPIAU; ISSN: 0021-8979
PB American Institute of Physics
DT Journal
LA English
OSC.G 84 THERE ARE 84 CAPLUS RECORDS THAT CITE THIS RECORD (84 CITINGS)
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 2 COMPENDEX COPYRIGHT 2010 EEI on STN
AN 2003-257509431 COMPENDEX <<LOGINID::20100728>>
TI Detection of single micron-sized magnetic bead and
magnetic nanoparticles using spin valve sensors for biological
applications
AU Li Guanxiong; Joshi Vikram; White Robert L.; Wang Shan X.; Kemp Jennifer
T.; Webb Chris; Davis Ronald W.; Sun Shouheng
CS Li Guanxiong; Joshi Vikram; White Robert L.; Wang Shan X. (Department of
Materials Science, Stanford University, Stanford, CA 94305 (US)); Kemp
Jennifer T.; Webb Chris; Davis Ronald W. (Stanford Genome Technology
Center, Stanford University, Palo Alto, CA 94304 (US)); Sun Shouheng
(IBM T. J. Watson Research Center, Yorktown Heights, NY 10598 (US))
EMAIL: sxwang@ee.stanford.edu
SO Journal of Applied Physics (15 May 2003) Volume 93, Number 10 2, pp.
7557-7559, 8 refs.
CODEN: JAPIAU ISSN: 0021-8979
DOI: 10.1063/1.1540176
Published by: American Institute of Physics Inc.
CY United States
DT Journal; (Conference Paper); Application; Theoretical; Experimental
LA English
SL English
ED Entered STN: 4 Jan 2009
Last updated on STN: 4 Jan 2009

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<-----User Break----->

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PASSWORD:

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	199.71	199.93

=> file .pensee

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	199.71	199.93

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=> e li guanxiong/au
E1 2 LI GUANXIN DEPARTMENT OF MATERIAL SCIENCE AND ENGINEER/AU
E2 10 LI GUANXING/AU
E3 36 --> LI GUANXIONG/AU
E4 1 LI GUANXIU/AU
E5 1 LI GUANXUE/AU
E6 1 LI GUANYA/AU
E7 1 LI GUANYANG/AU
E8 1 LI GUANYE/AU
E9 16 LI GUANYI/AU
E10 1 LI GUANYIN/AU
E11 6 LI GUANYING/AU
E12 5 LI GUANYONG/AU

=> s e3 and magnetic
L15 33 "LI GUANXIONG"/AU AND MAGNETIC

=> dup rem 115
PROCESSING COMPLETED FOR L15
L16 19 DUP REM L15 (14 DUPLICATES REMOVED)

=> d 116 1-19 ti

L16 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 1
TI Method and system for providing a perpendicular magnetic recording head

L16 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
TI Magnetic nanoparticles, magnetic detector arrays, and methods for their use in detecting biological molecules.

L16 ANSWER 3 OF 19 USPATFULL on STN
TI MAGNETIC NANOPARTICLES, MAGNETIC DETECTOR ARRAYS, AND METHODS FOR THEIR USE IN DETECTING BIOLOGICAL MOLECULES

L16 ANSWER 4 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STNDUPLICATE 2
TI Advances in giant magnetoresistance biosensors with magnetic nanoparticle tags: Review and outlook

L16 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 3
TI Spin valve sensors for ultrasensitive detection of superparamagnetic nanoparticles for biological applications

L16 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI Spin valve biosensors: Signal dependence on nanoparticle position

L16 ANSWER 7 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STN
TI Spin valve biosensors: Signal dependence on nanoparticle position

L16 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 4
TI Magnetic nanoparticles, magnetic detector arrays, and methods for their use in detecting biological molecules

L16 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 5
TI DNA-functionalized MFe₂O₄ (M = Fe, Co, or Mn) nanoparticles and their

hybridization to DNA-functionalized surfaces

L16 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 6
TI Towards a magnetic microarray for sensitive diagnostics

L16 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 7
TI Biochemical stability of components for use in a DNA detection system

L16 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 8
TI Model and experiment of detecting multiple magnetic nanoparticles as biomolecular labels by spin valve sensors

L16 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 9
TI Monodisperse MFe2O4 (M = Fe, Co, Mn) Nanoparticles

L16 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 10
TI Detection of single micron-sized magnetic bead and magnetic nanoparticles using spin valve sensors for biological applications

L16 ANSWER 15 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STN
TI Analytical and Micromagnetic Modeling for Detection of a Single Magnetic Microbead or Nanobead by Spin Valve Sensors

L16 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI Influence of Si buffer layer on the giant magnetoresistance effect in Co/Cu/Co sandwiches

L16 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI High giant magnetoresistance sensitivity in Co/Cu/Co sandwich with Ni buffer layer

L16 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI Highly sensitive giant magnetoresistance and in-plane magnetic anisotropy in Co/Cu/Co sandwiches with a Si buffer layer

L16 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
TI Study on giant magnetoresistance in Co/Cu/Co sandwiches

=> d 116 2, 4-6 ibib abs

L16 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN
ACCESSION NUMBER: 2010:263144 BIOSIS <<LOGINID::20100728>>
DOCUMENT NUMBER: PREV201000263144
TITLE: Magnetic nanoparticles, magnetic detector arrays, and methods for their use in detecting biological molecules.
AUTHOR(S): Wang, Shan X. [Inventor]; Anonymous; White, Robert L. [Inventor]; Webb, Chris D. [Inventor]; Li, Guanxiong [Inventor]
CORPORATE SOURCE: Portola Valley, CA USA
ASSIGNEE: The Board of Trustees of the Leland Stanford Junior University
PATENT INFORMATION: US 07682838 20100323
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (MAR 23 2010)
CODEN: OGUPE7. ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 13 May 2010

Last Updated on STN: 13 May 2010

AB Magnetic nanoparticles and methods for their use in detecting biological molecules are disclosed. The magnetic nanoparticles can be attached to nucleic acid molecules, which are then captured by a complementary sequence attached to a detector, such as a spin valve detector or a magnetic tunnel junction detector. The detection of the bound magnetic nanoparticle can be achieved with high specificity and sensitivity.

L16 ANSWER 4 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STNDUPPLICATE 2

ACCESSION NUMBER: 2008-2711347110 COMPENDEX <<LOGINID::20100728>>

TITLE: Advances in giant magnetoresistance biosensors with magnetic nanoparticle tags: Review and outlook

AUTHOR(S): Wang Shan X.; Li Guanxiong

CORPORATE SOURCE: Wang Shan X.; Li Guanxiong (Department of Materials Science and Engineering, Stanford University, Stanford, CA 94305 (US)); Wang Shan X. (Department of Electrical Engineering, Stanford University, Stanford, CA 94305 (US)); Li Guanxiong (Western Digital Corporation, Fremont, CA 94539 (US))

EMAIL: sxiwang@ee.stanford.edu

SOURCE: IEEE Transactions on Magnetics (Jul 2008) Volume 44, Number 7, pp. 1687-1702, 57 refs.

CODEN: IEMGAQ ISSN: 0018-9464

DOI: 10.1109/TMAG.2008.920962

Published by: Institute of Electrical and Electronics Engineers Inc.

COUNTRY OF PUBLICATION: United States

DOCUMENT TYPE: Journal; (Conference Paper)

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 5 Jan 2009

Last updated on STN: 5 Jan 2009

AN 2008-2711347110 COMPENDEX <<LOGINID::20100728>>

AB We present a review of giant magnetoresistance (GMR) spin valve sensors designed for detection of magnetic nanoparticles as biomolecular labels (nanotags) in magneto-nano biodetection technology. We discuss the intricacy of magneto-nano biosensor design and show that as few as approximately 14 monodisperse 16-nm superparamagnetic Fe₃O₄ nanoparticles can be detected by submicron spin valve sensors at room temperature without resorting to lock-in (narrow band) detection. GMR biosensors and biochips have been successfully applied to the detection of biological events in the form of both protein and DNA assays with great speed, sensitivity, selectivity, and economy. The limit of molecular detection is well below 10 pM in concentration, and the protein or DNA assay time can be under two hours. The technology is highly scalable to deep multiplex detection of biomarkers in a complex disease, and amenable to integration of microfluidics and CMOS electronics for portable applications. On-chip CMOS circuitry makes a sensor density of 0.1-1 million sensors per square centimeter feasible and affordable. The theoretical and experimental results thus far suggest that magneto-nano biochip-based GMR sensor arrays and nanotags hold great promise in biomedicine, particularly for point-of-care molecular diagnostics of cancer, infectious diseases, radiation injury, cardiac diseases, and other diseases. .COPYRGT. 2008 IEEE.

L16 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2006:62066 CAPLUS <<LOGINID::20100728>>

DOCUMENT NUMBER: 144:365613

TITLE: Spin valve sensors for ultrasensitive detection of superparamagnetic nanoparticles for biological

AUTHOR(S): applications
Li, Guanxiong; Sun, Shouheng; Wilson, Robert
J.; White, Robert L.; Pourmand, Nader; Wang, Shan X.
CORPORATE SOURCE: Department of Materials and Engineering, Stanford
University, Stanford, CA, 94305-4045, USA
SOURCE: Sensors and Actuators, A: Physical (2006), A126(1),
98-106
CODEN: SAAPEB; ISSN: 0924-4247
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB We present giant magnetoresistance (GMR) spin valve sensors designed for detection of superparamagnetic nanoparticles as potential biomol. labels in magnetic biodetection technol. We discuss the sensor design and exptl. demonstrate that as few as .apprx.23 monodisperse 16-nm superparamagnetic Fe₃O₄ nanoparticles can be detected by submicron spin valve sensors at room temperature without resorting to lock-in detection. A patterned self-assembly method of nanoparticles, based on a polymer-mediated process and fine lithog., is developed for the detection. It is found that sensor signal increases linearly with the number of nanoparticles.

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
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L16 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:562138 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 145:183222
TITLE: Spin valve biosensors: Signal dependence on nanoparticle position
AUTHOR(S): Li, Guanxiong; Sun, Shouheng; Wang, Shan X.
CORPORATE SOURCE: Department of Materials Science and Engineering, Stanford University, Stanford, CA, 94305, USA
SOURCE: Journal of Applied Physics (2006), 99(8, Pt. 3), 08P107/1-08P107/3
CODEN: JAPIAU; ISSN: 0021-8979
PUBLISHER: American Institute of Physics
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Exptl. and theor. studies have been carried out on the spin valve sensor signal dependence on the spatial locations of magnetic nanoparticles as potential biomol. labels in the magnetic biodetection technol. Superparamagnetic 16 nm magnetite (Fe₃O₄) nanoparticles were site specifically deposited at different positions relative to a submicron-wide spin valve sensor. The spin valve sensor signal showed both polarity and magnitude differences with the particles at different positions. A theor. model including magnetic sensor-particle interaction confirms the exptl. results and provides a design guide to the sensing area. Moreover, the theor. calcns. reveal a nonmonotonic signal dependence on the vertical particle-to-sensor distance due to the sensor-particle interaction, and show that an optimum distance exists for signal strength and quantification.

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REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 116 10, 12, 18 ibib abs

L16 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 6
ACCESSION NUMBER: 2005:402371 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 143:139042
TITLE: Towards a magnetic microarray for sensitive diagnostics
AUTHOR(S): Wang, Shan X.; Bae, Seung-Young; Li, Guanxiong ; Sun, Shouheng; White, Robert L.; Kemp, Jennifer T.; Webb, Chris D.
CORPORATE SOURCE: Geballe Laboratory for Advanced Materials, Department of Materials Science and Engineering, Stanford University, Stanford, CA, 94305-4045, USA
SOURCE: Journal of Magnetism and Magnetic Materials (2005), 293(1), 731-736
CODEN: JMMMD; ISSN: 0304-8853
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We presented proof-of-concept expts. and modeling towards a high-sensitivity magnetic microarray which "tags" a DNA fragment (or other biol. samples) with a high-moment magnetic nanoparticle (NanoTag), which is in turn detected by a high-sensitivity spin valve (SV) or magnetic tunnel junction (MTJ) detector array. The detector can count the number of magnetic tags with a resolution of 1-20 magnetic NanoTags, potentially counting individual biomols.
OS.CITING REF COUNT: 43 THERE ARE 43 CAPLUS RECORDS THAT CITE THIS RECORD (43 CITINGS)
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 8
ACCESSION NUMBER: 2004:804749 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 142:256924
TITLE: Model and experiment of detecting multiple magnetic nanoparticles as biomolecular labels by spin valve sensors
AUTHOR(S): Li, Guanxiong; Wang, Shan X.; Sun, Shouheng
CORPORATE SOURCE: Department of Materials Science and Engineering, Stanford University, Stanford, CA, 94305, USA
SOURCE: IEEE Transactions on Magnetics (2004), 40(4, Pt. 2), 3000-3002
CODEN: IEMGAQ; ISSN: 0018-9464
PUBLISHER: Institute of Electrical and Electronics Engineers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We present an anal. model for detection of multiple magnetic nanoparticles (NP) as biomol. labels by spin valve (SV) sensors, aiming to establish the relationship between the SV sensor signal and the number of magnetic labels. The model is based on the assumptions of equivalent average field of magnetic NPs and the coherent magnetization rotation of SVs free layer. Using the model, we have calculated the sensor signals of multiple NPs uniformly or randomly distributed over a SV sensor at various aspect ratios of the NP array. Satisfactory signal linearity at low particle number or high aspect ratio has been found. The model also reveals that the SV sensors could be made insensitive to the random configuration of NPs and only sensitive to the number of NPs. This feature is desired for quant. bio-detection. To check the validity of the model, we performed expts. on a monolayer of 16-nm Fe₃O₄ NPs coated on 0.3- μ m-wide SV sensors. We found that the measured signals could be well described by the anal. model.
OS.CITING REF COUNT: 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS

REFERENCE COUNT: 11 RECORD (33 CITINGS)
THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:679591 CAPLUS <<LOGINID::20100728>>
DOCUMENT NUMBER: 132:43223
TITLE: Highly sensitive giant magnetoresistance and in-plane magnetic anisotropy in Co/Cu/Co sandwiches with a Si buffer layer
AUTHOR(S): Li, Guanxiong; Shen, Honglie; Shen, Qinwo; Li, Tie; Zou, Shichang
CORPORATE SOURCE: State Key Laboratory of Functional Materials for Informatics, Shanghai Institute of Metallurgy, Chinese Academy of Sciences, Shanghai, 200050, Peop. Rep. China
SOURCE: Gongneng Cailiao Yu Qijian Xuebao (1999), 5(3), 195-200
CODEN: GCQXFW; ISSN: 1007-4252
PUBLISHER: Gongneng Cailiao Yu Qijian Xuebao Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB The Co/Cu/Co sandwiches with an amorphous Si buffer layer were prepared by high vacuum electron-beam evaporation. The giant magnetoresistance (GMR) effect in these sandwiches was studied. An obvious in-plane magnetic anisotropy appeared in the Co/Cu/Co sandwiches with a Si buffer layer >0.9nm. A GMR of 5.5% and a high field sensitivity of 0.9%/Oe along the easy axis in Si 1.5nm/Co 5nm/Cu 3nm/Co 5nm sandwich was obtained. The interdiffusion at Si/Co interface was studied and a cobalt silicide was found. The silicide layer formed at interface was thought to induce the in-plane magnetic anisotropy in the sandwiches, which consequently resulted in the high field sensitivity of GMR.

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L1 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND (AC
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L2 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND AC
FIELD

L3 24 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND
 MAGNETIC
 L4 22 DUP REM L3 (2 DUPLICATES REMOVED)
 D L4 1-22 TI
 L*** DEL 11 S E3 AND MAGNETIC
 L*** DEL 1 S E3 AND MAGNETIC
 L*** DEL 1 S E3 AND MAGNETIC
 L*** DEL 11 S E3 AND MAGNETIC
 L5 735 SEA FILE=MFE SPE=ON ABB=ON PLU=ON L4 AND TICKLE OR TICKLING
 L6 1658 SEA FILE=MFE SPE=ON ABB=ON PLU=ON TICKLE OR TICKLING
 L*** DEL 11 S E3 AND MAGNETIC
 L*** DEL 1 S E3 AND MAGNETIC
 L*** DEL 1 S E3 AND MAGNETIC
 L*** DEL 11 S E3 AND MAGNETIC
 L7 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON L6 AND L4
 L*** DEL 11 S E3 AND MAGNETIC
 L*** DEL 1 S E3 AND MAGNETIC
 L*** DEL 1 S E3 AND MAGNETIC
 L*** DEL 11 S E3 AND MAGNETIC
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 L9 7 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND AC
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 D L10 1-5
 L11 3 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND
 (MAGNETIC FIELD)
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 L12 347 SEA FILE=MFE SPE=ON ABB=ON PLU=ON ("WHITE ROB"/AU OR "WHITE
 ROBER"/AU OR "WHITE ROBERT"/AU)
 L13 2 SEA FILE=MFE SPE=ON ABB=ON PLU=ON L12 AND (MAGNETIC FIELD)
 D L13 1-2
 E WHITE R/AU
 E WEBB CHRIS/AU
 L14 2 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WEBB CHRIS"/AU AND
 MAGNETIC
 D L14 1-2
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 METADEX, USPATFULL' ENTERED AT 14:52:53 ON 28 JUL 2010
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 L15 33 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "LI GUANXIONG"/AU AND
 MAGNETIC
 L16 19 DUP REM L15 (14 DUPLICATES REMOVED)
 D L16 1-19 TI

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